

FIGURE 1

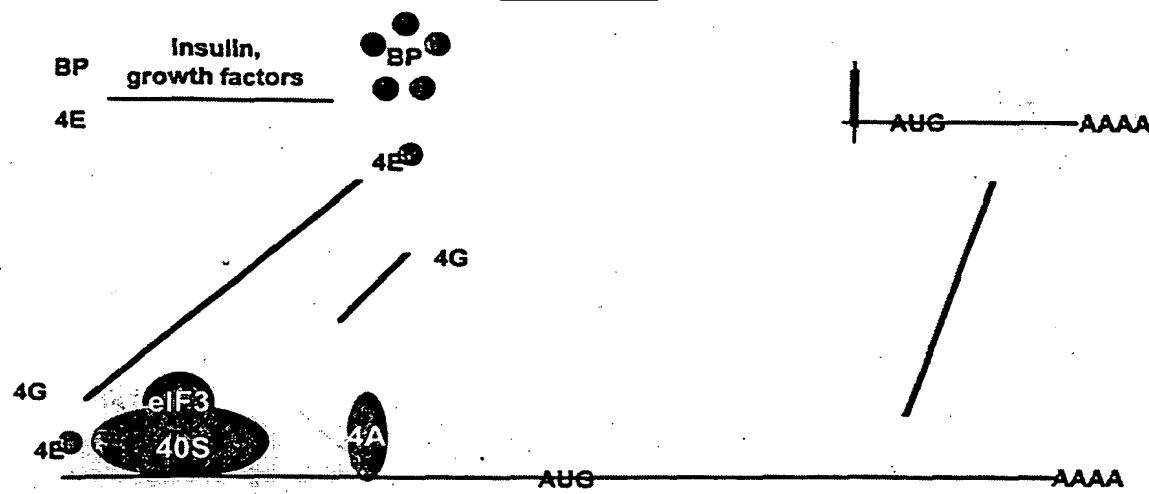
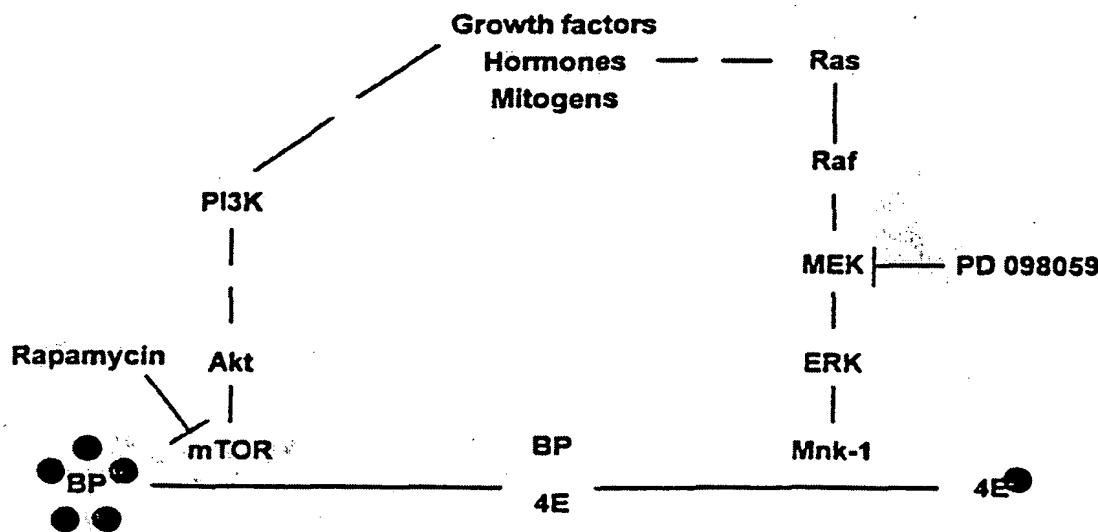


FIGURE 2



BEST AVAILABLE COPY

FIGURE 3

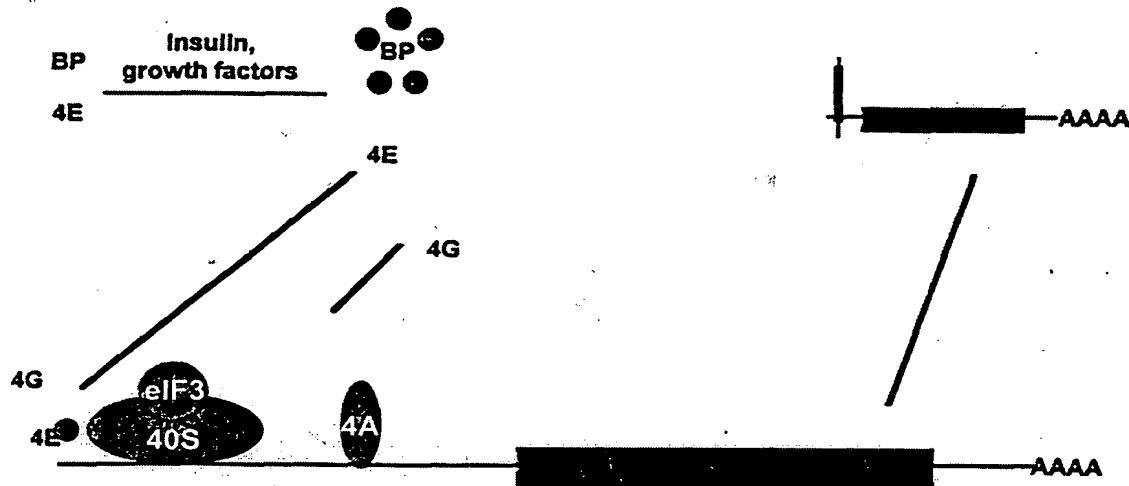


FIGURE 4

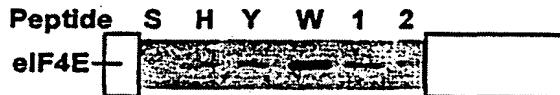
h4g human eIF4G B $\beta$ KKRYDREFLLGFAARQIKIWFQNRRMKWKK

**S** scrambled eIF4G B<sub>1</sub> **F**D<sub>2</sub>L<sub>3</sub>K<sub>4</sub>F<sub>5</sub>A<sub>6</sub>L<sub>7</sub>G<sub>8</sub>R<sub>9</sub>Y<sub>10</sub>R<sub>11</sub>A<sub>12</sub>E<sub>13</sub>K<sub>14</sub>R<sub>15</sub>Q<sub>16</sub>I<sub>17</sub>K<sub>18</sub>W<sub>19</sub>F<sub>20</sub>Q<sub>21</sub>N<sub>22</sub>R<sub>23</sub>R<sub>24</sub>M<sub>25</sub>K<sub>26</sub>W<sub>27</sub>K<sub>28</sub>

no peptide

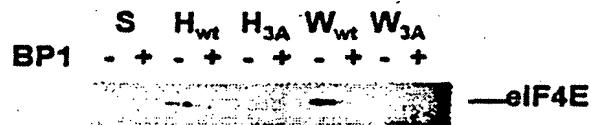
**rec 4E recombinant human eIF4E**

FIGURE 5



H	human elf4G	B β β K K R <u>Y</u> D R E F <u>L L</u> G F 413-424
Y	yeast elf4G	B β β K Y T <u>Y</u> G P T F <u>L L</u> Q F 449-460
W	wheat elf4G	B β β R V R <u>Y</u> S R D Q <u>L L</u> D L 62-73
1	human 4E-BP1	B β β R I I <u>Y</u> D R K F <u>L</u> M E U 51-62
2	human 4E-BP2	B β β R I I <u>Y</u> D R K F <u>L L</u> D R 51-62
S	scrambled elf4G	

FIGURE 6



<u>4G Peptide</u>		<u>Sequence</u>
H <sub>wt</sub>	hu 4G <sub>(413-424)</sub>	K K R <u>Y</u> D R E F <u>L L</u> G F A A
H <sub>3A</sub>	hu 4G <sub>(413-424)YALALA</sub>	K K R A D R E F A A G F A A
W <sub>wt</sub>	wh 4G <sub>(62-73)</sub>	R V R <u>Y</u> S R D Q <u>L L</u> D L A A
W <sub>3A</sub>	wh 4G <sub>(62-73)YALALA</sub>	R V R A S R D Q A A D L A A
S	scrambled hu 4G	F D L K F A L G R Y R A E K

all peptides biotinylated and linked to Penetratin™

FIGURE 7

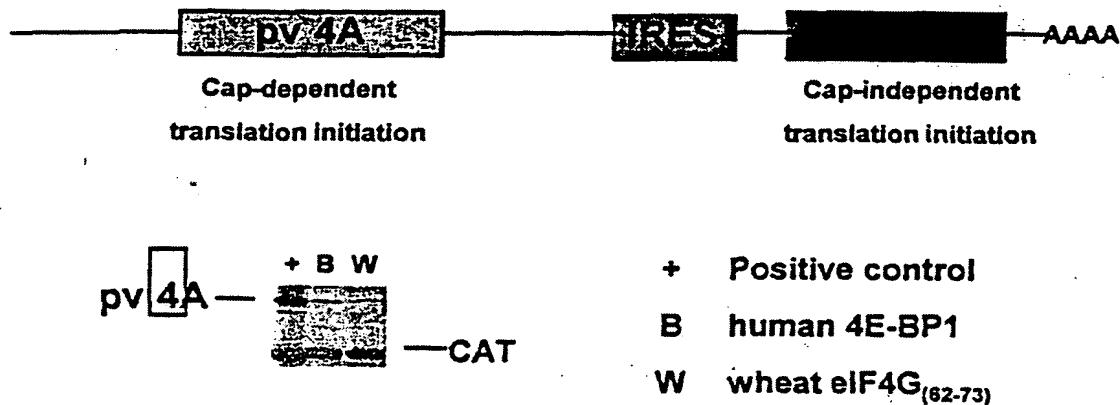


FIGURE 8

Peptide	Concentration			
	3 $\mu$ M	6 $\mu$ M	9 $\mu$ M	12 $\mu$ M
hu 4G <sub>(413-424)</sub>	+	++	+++	+++
hu 4G <sub>(413-424)Y416AL421AL422A</sub>	-	-	-	-
wh 4G <sub>(62-73)</sub>	-/+	+	++	+++
wh 4G <sub>(62-73)Y65AL70AL71A</sub>	-	-	-	-
scrambled hu 4G	-	-	-	-

MRC5 cells, 72 h serum-free growth, all peptides biotinylated and linked to Penetratin™

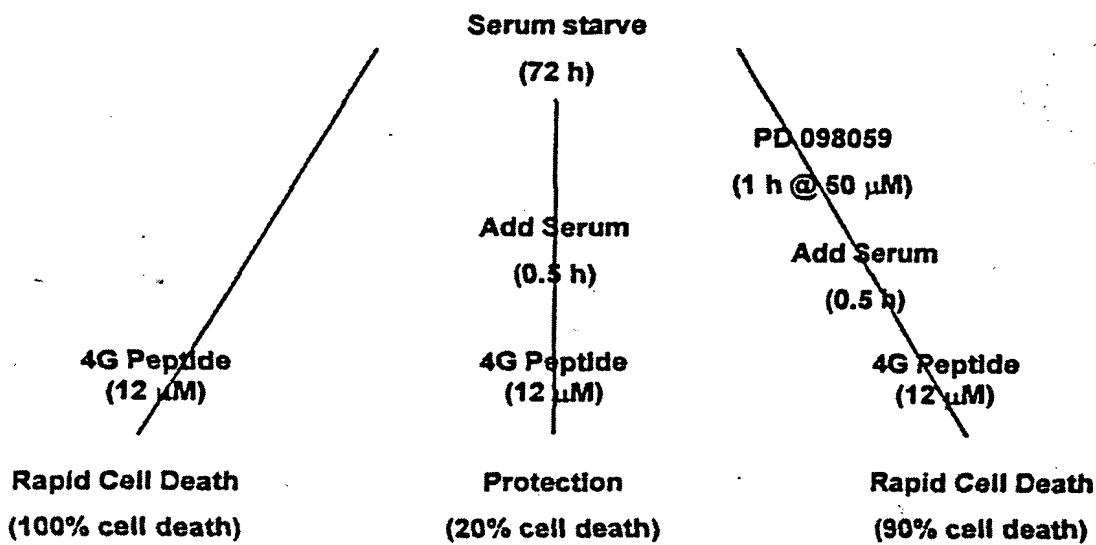
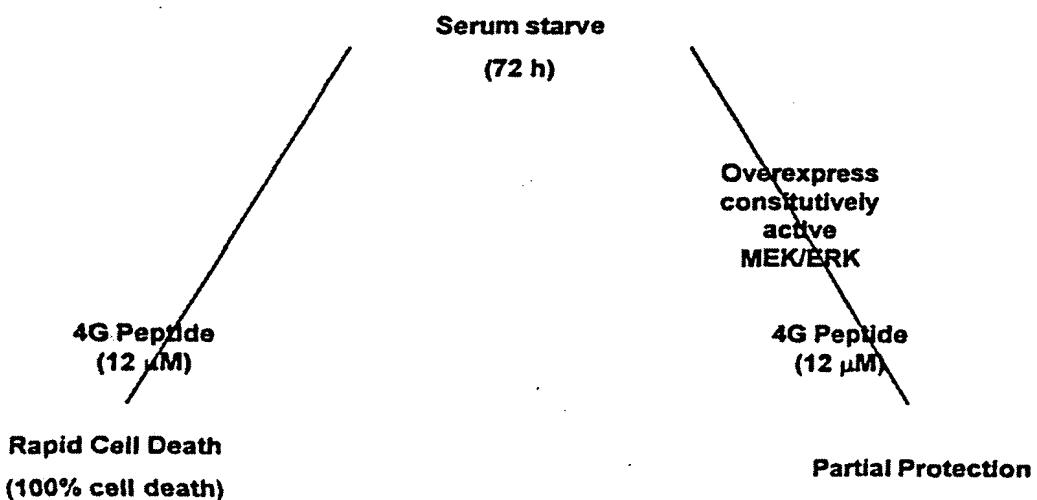
FIGURE 9FIGURE 10

FIGURE 11

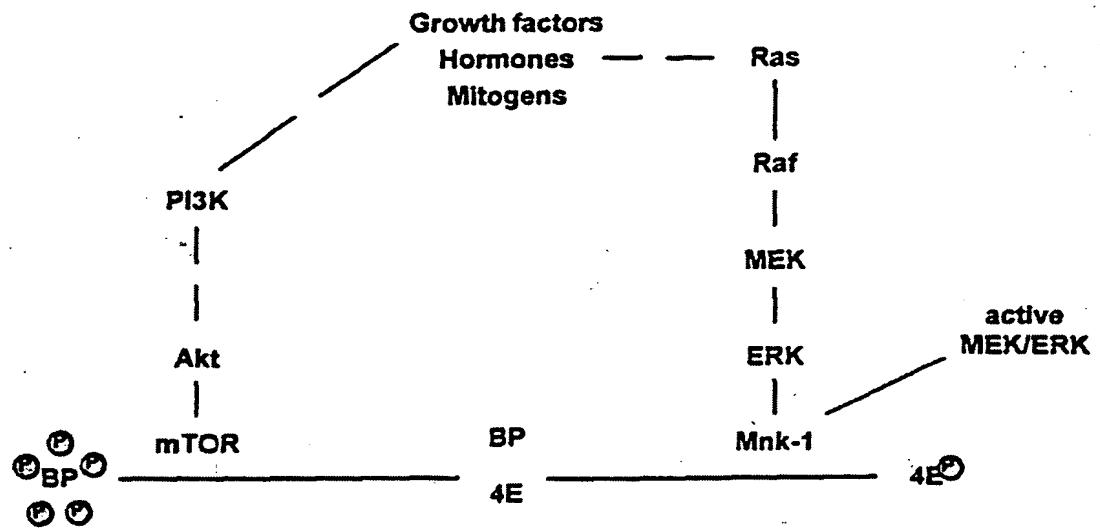


FIGURE 12

(a)

Hu 4G	Human eIF4G Peptide (569-580) Wild Type	KKRYDREF <u>FL</u> LG
Hu 4G YLL-AAA	Human eIF4G Peptide (569-580) Y572A L577A L578A	KKRADREF <u>AA</u> GF
Hu 4G Y-A	Human eIF4G Peptide (569-580) Y572A	KKRADREF <u>FL</u> GF
Hu 4G L-A	Human eIF4G Peptide (569-580) L577A	KKRYDREF <u>AL</u> GF
W4G	Wheat eIF4G Peptide (62-73) Wild Type	RVRYSRD <u>Q</u> LLDL
W4G YLL-AAA	Wheat eIF4G Peptide (62-73) Y65A, L70A, L71A	RVRASRD <u>Q</u> AADL
BP2	Human 4E-BP2 Peptide (51-62) Wild Type	RIIYDRK <u>FL</u> LD
BP2 YLL-AAA	Human 4E-BP2 Peptide (51-62) Y54A, L59A, L60A.	RIIADR <u>KF</u> AADR
BP1	Human 4E-BP1 Peptide (51-62) Wild Type	RIIYDRK <u>FL</u> MEU
BP1 YLM-AAA	Human 4E-BP1 Peptide (51-62) Y54A, L59A, M60A	RIIADR <u>KF</u> AAEU

(b)

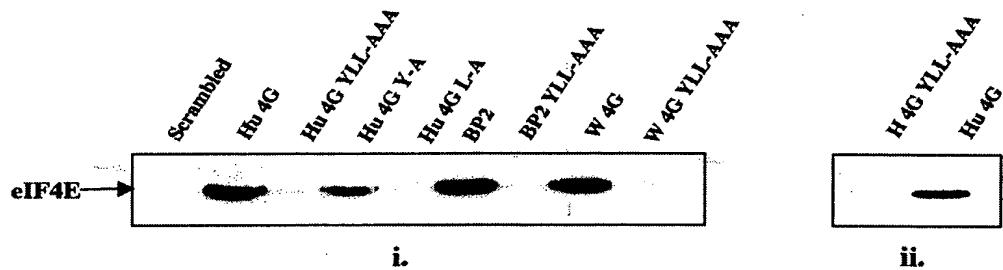
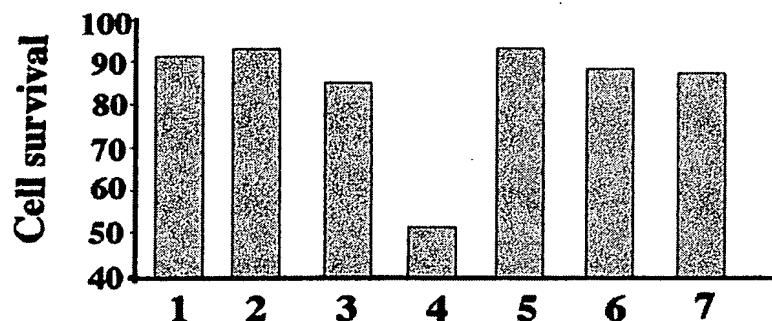
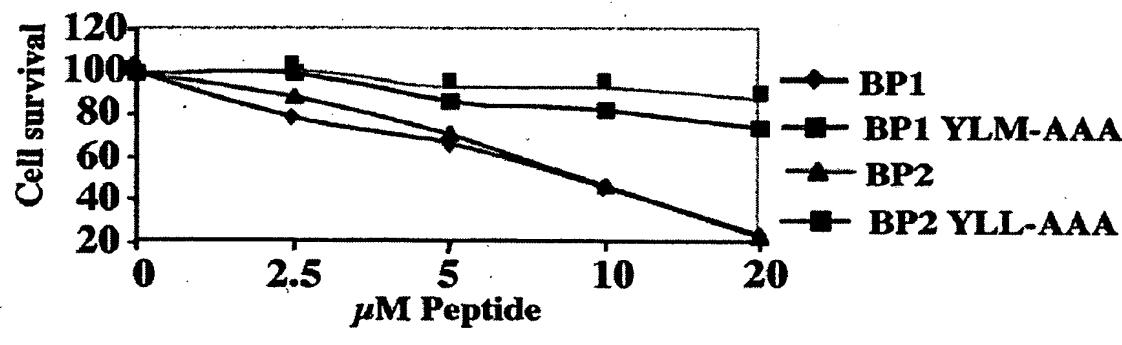


FIGURE 13

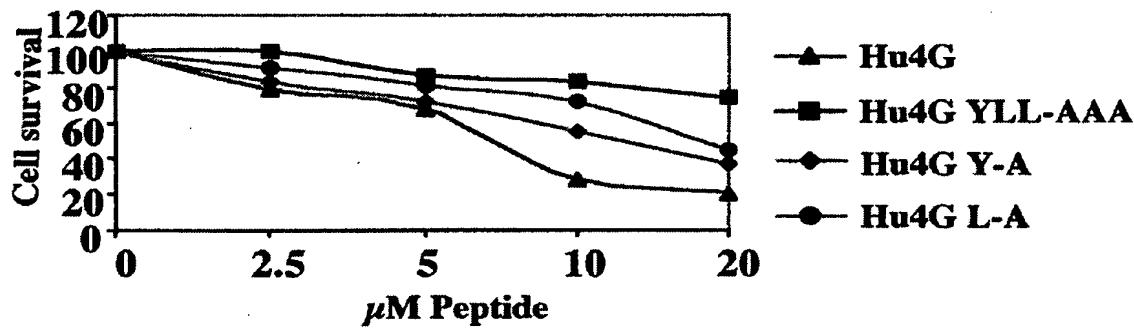
(a)



(b)



(c)



(d)

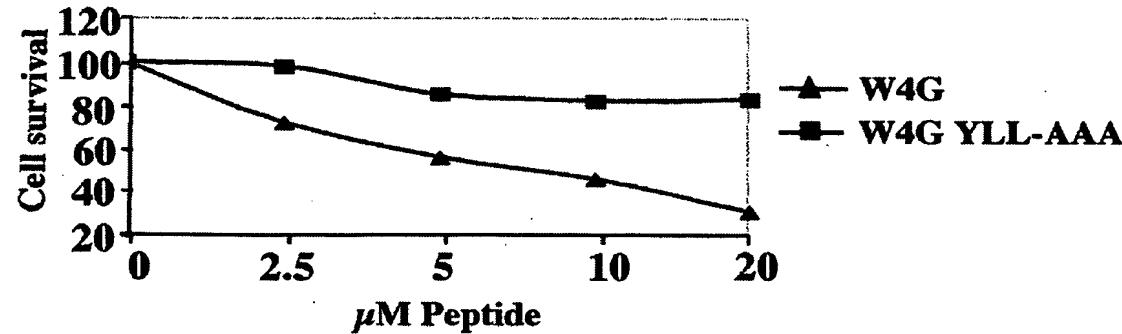
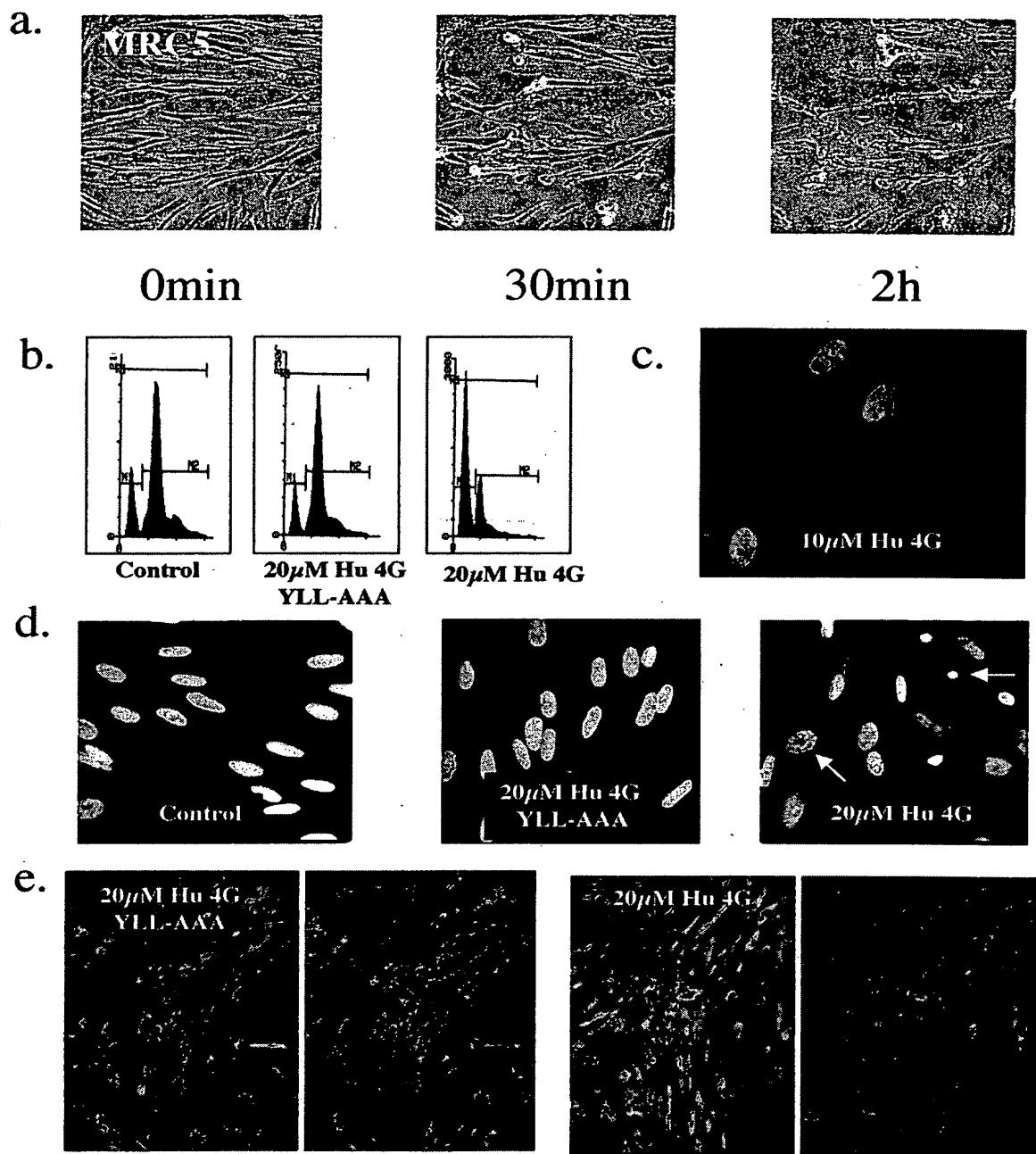


FIGURE 14



1001998-061902 3

10/12

FIGURE 15

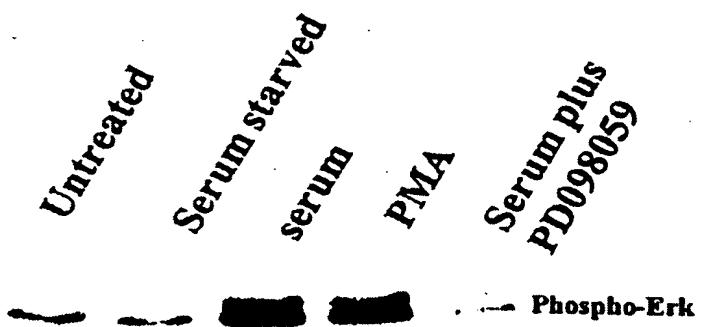


FIGURE 16

(a)

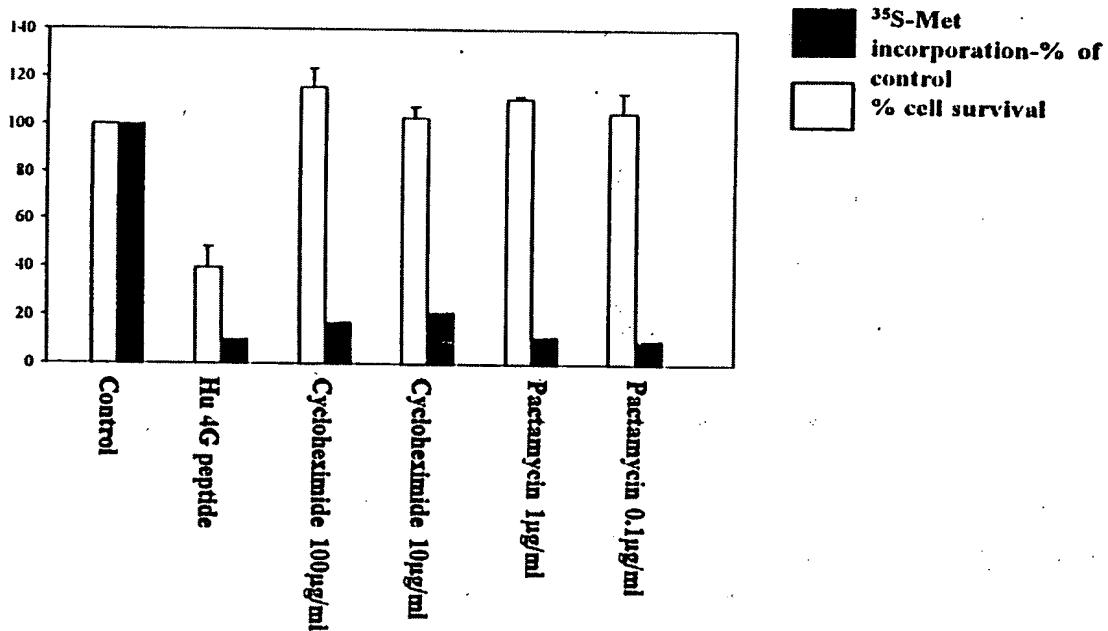
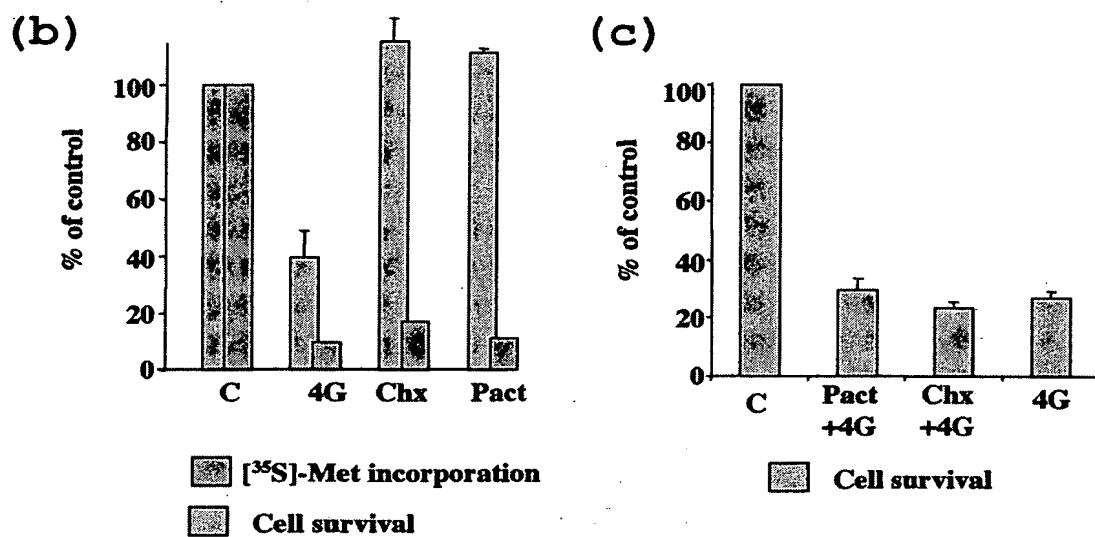


FIGURE 16 (cont.)



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

### **IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**